ADSL2+

4-port
10/100Mbps
Switch

QoS

EasySign-On

▲ **BiPAC 7300G** *RA*   ▲ **BiPAC 7300** *RA*

BiPAC 7300(G) *RA*

(802.11g) ADSL2+ Firewall Router with QoS and EZSO

Easy to set up to surf the net! Billion's BiPAC 7300(G) RA series is an all-in-one compact package of ADSL2+ router perfectly designed for home and SOHO users to enjoy the mobility and faster speed when using ADSL Internet connection. The device lets you access high-speed ADSL Internet connection, even faster with advanced ADSL2+ capability with downstream rate up to 24 Mbps. The router supports Easy Sign-On (EZSO) technology, enabling users to establish ADSL connections via standard web browsers such as Internet Explorer. This user-friendly design supports all kinds of operating systems, significantly reducing the time and efforts spent configuring your system. An abundance of integrated firewall security features such as SPI, DoS attack prevention, and URL Content Filtering provide users unparalleled protection from hackers. The Quality of Service feature ensures a smooth net connection for inbound and outbound data, with minimal traffic congestion.

Express Internet Access

This router complies with worldwide ADSL standards. It supports downstream rates of up to 12/24 Mbps with ADSL2/2+, 8 Mbps with ADSL, and upstream rates of up to 1 Mbps. With this technology, users enjoy not only high-speed ADSL service but also broadband multimedia applications such as interactive gaming, video streaming and real-time audio much more quickly and easily than ever. In particular, by doubling the upstream data rate, the Annex M standard included in the BiPAC 7300(G) *RA* A model supports the latest ADSL2/2+ for higher upload speeds.

Smooth and Responsive Net Connection

Quality of Service (QoS) gives you full control over outgoing data traffic. Priority can be assigned by the router to ensure that important data like gaming packets, customer information, or management information passes through the router at lightning speed, even under a heavy load. You can also control the speed of different types of outgoing data passing through the router to ensure that users do not saturate your bandwidth with their browsing activities.
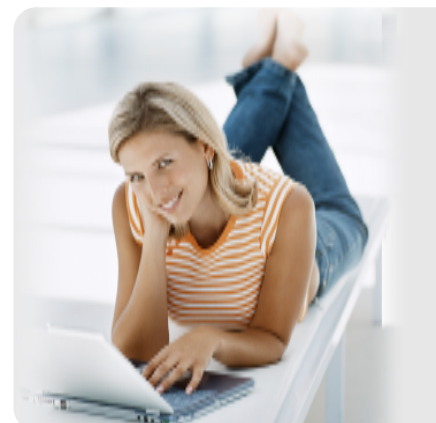
Easy Sign-On (EZSO)

Easy Sign-On (EZSO) technology allows users to effortlessly establish an ADSL connection through standard web browsers such as Internet Explorer. The router can automatically detect the PPPoE/PPPoA or DHCP protocol for your ADSL connection. Just log into the system with the required username and password provided by your ISP, and the router will automatically establish the Internet connection for you. This user-friendly design supports all kinds of operating systems.

Robust Firewall Security

Along with the built-in NAT natural firewall feature, the router's advanced anti-hacker pattern-filtering protection feature automatically detects and blocks Denial of Service (DoS) attacks. Built with Stateful Packet Inspection (SPI), the router enables users to determine whether or not a given data packet is allowed to pass through the firewall to the private LAN.

Wireless Mobility (BiPAC 7300G *RA*)

With an integrated 802.11g Wireless Access Point, the router offers quick and easy access and mobility to the users of wired networks, wireless networks, and broadband connections (ADSL). In addition to supporting the 54 Mbps 802.11g data rate, it is also backward compatible with existing 802.11b equipment. The Wireless Protected Access (WPA-PSK/WPA2-PSK) and Wireless Encryption Protocol (WEP) features enhance the level of data protection and access control via a Wireless LAN. If your network requires wider coverage, the built-in Wireless Distribution System (WDS) repeater function allows you to expand the wireless network without using any wires at all.

- High speed Internet access with ADSL2/2+; backward compatible with ADSL
- 802.11g Wireless AP with WPA-PSK/WPA2-PSK Support (BiPAC 7300G *RA*)
- Auto channel select
- SOHO Firewall Security with DoS Prevention and Packet Filtering
- Easy Sign-On (EZSO) and Web-based Configuration
- Quality of Service Control
- Universal Plug and Play (UPnP) Compliant
- Dynamic Domain Name System (DDNS)
- Supports VPN pass-through
- Ideal for Home and SOHO Users

Powering communications
with **Security**

◀ **BiPAC 7300 *RA*** ADSL2+ Firewall Router
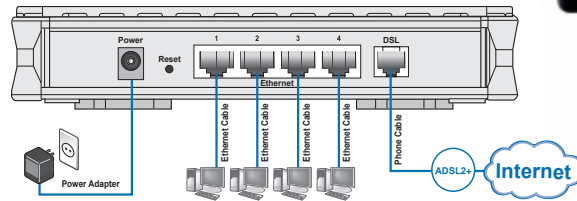
BiPAC 7300G *RA* 802.11g ADSL2+ Firewall Router ▶
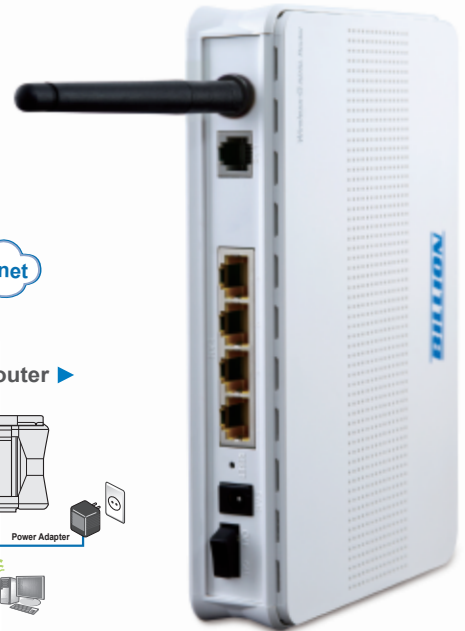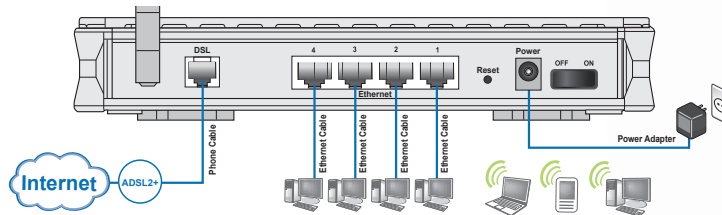
Features & Specifications

ADSL Compliance

- Compliant with ADSL Standard
  - Full-rate ANSI T1.413 Issue 2
  - G.dmt (ITU G.992.1)
  - G.lite (ITU G.992.2)
  - G.hs (ITU G.994.1)
  - ADSL over ISDN/U-R2
- Compliant with ADSL2 Standard
  - G.dmt.bis (ITU G.992.3)
  - ADSL2 Annex M (ITU G.992.3 Annex M) (BiPAC 7300(G) *RA* A only)
- Compliant with ADSL2+ Standard
  - G.dmt.bisplus (ITU G.992.5)
  - ADSL2+ Annex M (ITU G.992.5 Annex M) (BiPAC 7300(G) *RA* A only)

Network Protocols and Features

- NAT, static routing and RIP-1/2
- NAT supports PAT and multimedia applications
- Transparent Bridging
- Virtual Server and DMZ
- SNTP, DNS relay and DDNS
- IGMP snooping and IGMP proxy

Firewall & Virtual Private Network (VPN)

- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Remote access control for web base access
- Packet and URL filtering
- Password protection for system management
- VPN pass-through

Quality of Service Control

- Supports the DiffServ approach
- Traffic prioritization based-on IP protocol, port number and address

Wireless LAN (BiPAC 7300G *RA*)

- Compliant with IEEE 802.11g and 802.11b standards
- 2.4 GHz – 2.484 GHz frequency range
- Up to 54 Mbps wireless operation rate
- Auto channel select
- 64/128 bits WEP supported for encryption
- Wireless Security with WPA-PSK/WPA2-PSK support
- WDS repeater function support

ATM and PPP Protocols

- ATM Adaptation Layer Type 5 (AAL5)
- Multiple Protocol over AAL5 (RFC 2684, formerly RFC 1483)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- OAM F4/F5

Management

- Quick Installation Wizard and Auto-scan ADSL settings
- Web-based for remote and local management
- Firmware upgrades and configuration data upload/download via web-based interface
- Embedded Telnet server for local management
- SNMP v1/v2/v3, MIB-I and MIB-II support
- Available Syslog monitoring
- Supports DHCP server/client/relay
- Mail Alert

Operating Environment

- Operating temperature: 0 - 40°C
- Storage temperature: -20 - 70°C
- Humidity: 20 - 95% non-condensing

Hardware Specifications

Physical Interface (BiPAC 7300G *RA*)
- WLAN: 1 detachable antenna
- LINE: ADSL port
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
- Factory default reset button
- Power jack
- Power switch

Physical Interface (BiPAC 7300 *RA*)
- Power jack
- Factory default reset button
- LAN: 4-port 10/100M auto-crossover (MDI/MDI-X) switch
- LINE: ADSL port

Physical Specifications
- BiPAC 7300G *RA*
  Dimensions: 7.28" x 4.86" x 1.42" (185mm x 123.5mm x 35mm)
- BiPAC 7300 *RA*
  Dimensions: 5.51" x 3.54" x 1.38" (140.5mm x 90.5mm x 35mm)

Power Requirements
- Input: 12V DC, 1A

Models & Supported Standards

- BiPAC 7300(G) *RA* A: Annex A & Annex M (Annex A and Annex M: ADSL over POTS)
- BiPAC 7300(G) *RA* U: Annex B & U-R2 (Annex B and Annex U-R2: ADSL over ISDN)

Notes:
1. The router may require firmware modification for certain ADSL2/2+/Annex M DSLAMs.
2. Specifications in this datasheet are subject to change without prior notice.

V.120408

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